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L1	6454	709/223,238,241,242.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2005/09/01 17:44
L2	68	709/223,238,241,242.ccls. and (forward$3 or rout$3) same (data or content) near3 (request) same (cache)	US-PGPUB; USPAT; EPO	OR	ON	2005/09/01 17:45
L3	5	709/223,238,241,242.ccls. and (forward$3 or rout$3) same (data or content) near3 (request) same (cache) same (rules or criteria or polic$3)	US-PGPUB; USPAT; EPO	OR	ON	2005/09/01 17:46
S1	514	(user$1 or client$1or consumer$1 or customer$1 or purchasor$ or buyer$1 or shopper$1) and 709/207.ccls.	US-PGPUB; USPAT; EPO	OR	ON	2004/12/23 20:55
S2	106	S1 and (cache or stor$4) same (polic$3 or rule$1)	US-PGPUB; USPAT; EPO	OR	ON	2004/12/23 19:55
S3	67	S1 and (cache or stor$4) same (polic$3 or rule$1) same (content or data$4 or info$5 or byte)	US-PGPUB; USPAT; EPO	OR	ON	2004/12/23 19:56
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S5	2	(user$1 or client$1or consumer$1 or customer$1 or purchasor$ or buyer$1 or shopper$1) same (proxy) near5 (storage or cache) same (rule$1 or polic$3) same (search$3) near4 (engine)	US-PGPUB; USPAT; EPO	OR	ON	2004/12/23 21:22
S6	0	(user$1 or client$1or consumer$1 or customer$1 or purchasor$ or buyer$1 or shopper$1) same (proxy) near4 (sever) near5 (storage or cache) same (rule$1 or polic$3) same (search$3) near4 (engine)	US-PGPUB; USPAT; EPO	OR	ON	2004/12/23 21:23
S7	0	(user$1 or client$1or consumer$1 or customer$1 or purchasor$ or buyer$1 or shopper$1) same (proxy) near4 (sever) near5 (storage or cache) same (rule$1 or polic$3)	US-PGPUB; USPAT; EPO	OR	ON	2004/12/23 21:23

S8	23	(user$1 or client$1or consumer$1 or customer$1 or purchasor$ or buyer$1 or shopper$1) same (proxy) near4 (server) near5 (storage or cache) same (rule$1 or polic$3)	US-PGPUB; USPAT; EPO	OR	ON	2005/09/01 17:42
S9	2	(user$1 or client$1or consumer$1 or customer$1 or purchasor$ or buyer$1 or shopper$1) same (proxy) near4 (server) near5 (storage or cache) same (rule$1 or polic$3) same (search)	US-PGPUB; USPAT; EPO	OR	ON	2004/12/23 21:23

Terms used **intelligent media request routing** Found **21,232** of **160,906**

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1 Architectural design of a multi-agent system for handling metadata streams

Don Cruickshank, Luc Moreau, David De Roure

May 2001 **Proceedings of the fifth international conference on Autonomous agents**

Full text available: pdf(211.00 KB) Additional Information: full citation, abstract, references, citings, index terms

We have designed a multi-agent architecture to deliver metadata streams synchronously with multimedia streams over a wide-area network. To this end, we have devised a simple protocol for synchronising agents to a media clock. This protocol defines the concept of a deadline, after which servers can drop data because it can no longer reach clients in time. We also introduce a new concept of a contract as a first-class entity representing a successful subscription; a contract is used by agen ...

2 Using PARLAY APIs over a SIP system in a distributed service platform for carrier grade multimedia services

Rudolf Pailer, Johannes Stadler, Igor Miladinovic

July 2003 **Wireless Networks**, Volume 9 Issue 4

Full text available: pdf(1.19 MB) Additional Information: full citation, abstract, references, index terms

The implementation of new mobile communication technologies developed in the third generation partnership project (3GPP) will allow to access the Internet not only from a PC but also via mobile phones, palmtops and other devices. New applications will emerge, combining several basic services like voice telephony, e-mail, voice over IP, mobility or web-browsing, and thus wiping out the borders between the fixed telephone network, mobile radio and the Internet. Offering those value-added services ...

Keywords: SIP-Parlay mapping, caller preferences, carrier grade services, network-independent services, service platform

3 Mobility and Wireless Access: Mobile streaming media CDN enabled by dynamic SMIL

Takeshi Yoshimura, Yoshifumi Yonemoto, Tomoyuki Ohya, Minoru Etoh, Susie Wee

May 2002 **Proceedings of the 11th international conference on World Wide Web**

Full text available: pdf(623.98 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we present a mobile streaming media CDN (Content Delivery Network) architecture in which content segmentation, request routing, pre-fetch scheduling, and

session handoff are controlled by SMIL (Synchronized Multimedia Integrated Language) modification. In this architecture, mobile clients simply follow modified SMIL files downloaded from a streaming portal server; these modifications enable multimedia content to be delivered to the mobile clients from the best surrogates in the CD ...

Keywords: CDN, SMIL, mobile network, streaming media

4 Intelligent information dissemination services in hybrid satellite-wireless networks

Eddie C. Shek, Son K. Dao, Yongguang Zhang, Darrel J. Van Buer, Giovanni Giuffrida
December 2000 **Mobile Networks and Applications**, Volume 5 Issue 4

Full text available: pdf(527.68 KB) Additional Information: full citation, abstract, references, citings, index terms

The need for rapid deployment and user mobility suggest the use of a hybrid satellite‐wireless network infrastructure for important situation awareness and emergency response applications. An Intelligent Information Dissemination Service (IIDS) has been developed to support the dissemination and maintenance of extended situation awareness throughout such a network information infrastructure in a seamless manner. One of the goals of IIDS is to transparently handle the mismatches ...

5 A caching and streaming framework for mulitmedia

Shantanu Paknikar, Mohan Kankanhalli, K. R. Ramakrishnan, S. H. Srinivasan, Lek Heng Ngoh
October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available: pdf(642.08 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we explore the convergence of the *caching* and *streaming* technologies for Internet multimedia. The paper describes a design for a streaming and caching architecture to be deployed on broadband networks. The basis of the work is the proposed Internet standard, Real Time Streaming Protocol (RTSP), likely to be the *de-facto* standard for web-based A/V caching and streaming, in the near future. The proxies are all managed by an `Intelligent Agent' or `Broker' - t ...

Keywords: broker, caching, hit ratio, layered coding, proxies, quality hit ratio, replacement policy, streaming

6 Bridging the digital divide: storage media + postal network = generic high-bandwidth communication

Nitin Garg, Sumeet Sobti, Junwen Lai, Fengzhou Zheng, Kai Li, Randolph Y. Wang, Arvind Krishnamurthy
May 2005 **ACM Transactions on Storage (TOS)**, Volume 1 Issue 2

Full text available: pdf(748.97 KB) Additional Information: full citation, abstract, references, index terms

Making high-bandwidth Internet access pervasively available to a large worldwide audience is a difficult challenge, especially in many developing regions. As we wait for the uncertain takeoff of technologies that promise to improve the situation, we propose to explore an approach that is potentially more easily realizable: the use of digital storage media transported by the postal system as a general digital communication mechanism. We shall call such a system a *Postmanet*. Compared to mor ...

Keywords: Distributed systems, peer-to-peer systems, postal system, storage systems, the digital divide

7 A framework for the transmission of streaming media to mobile devices
Kevin Curran, Gerard Parr
January 2002 **International Journal of Network Management**, Volume 12 Issue 1

Full text available: pdf(302.57 KB) Additional Information: full citation, abstract, references, index terms

One interesting problem is the delay imposed upon mobile receivers when switching between wireless cells. We provide a solution to this in the form of an extension of Mobile IP's handoff algorithm. Our solution involves the exploitation of mobility prediction to predict a mobile terminal's future location based on its previous history (i.e. the last cell that it has been in) and for the media stream to be already present and cached by next cells base station ready for receiving by the mobile dev ...

8 An open architecture for next-generation telecommunication services
Gregory W. Bond, Eric Cheung, K. Hal Purdy, Pamela Zave, J. Christopher Ramming
February 2004 **ACM Transactions on Internet Technology (TOIT)**, Volume 4 Issue 1

Full text available: pdf(237.24 KB) Additional Information: full citation, abstract, references, citings, index terms

An open (in the sense of extensible and programmable) architecture for IP telecommunications must be based on a comprehensive strategy for managing feature interaction. We describe our experience with BoxOS, an IP telecommunication platform that implements the DFC technology for feature composition. We present solutions to problems, common to all efforts in IP telecommunications, of feature distribution, interoperability, and media management. We also explain how BoxOS addresses many deficiencie ...

Keywords: Component architectures, Intelligent Network architecture, Session Initiation Protocol, electronic mail, feature interaction, instant messaging, multimedia systems, network addressing, network interoperation, network optimization, network protocols, service creation

9 Short Papers: SmartKom mobile: intelligent ubiquitous user interaction
Rainer Malaka, Jochen Haeussler, Hidir Aras
January 2004 **Proceedings of the 9th international conference on Intelligent user interface**

Full text available: pdf(178.24 KB) Additional Information: full citation, abstract, references, index terms

This paper presents SmartKom Mobile, the mobile version of the SmartKom system. SmartKom Mobile brings together highly advanced user interaction and mobile computing in a novel way and allows for ubiquitous access to multi-domain information. SmartKom Mobile is device-independent and realizes multi-modal interaction in cars and on mobile devices such as PDAs. With its siblings, SmartKom Home and SmartKom Public, it provides intelligent user interfaces for an extremely broad range of scenarios an ...

Keywords: intelligent assistants, interface agents, natural language processing, task modeling, ubiquitous interfaces

10 Trunking of TDM and narrowband services over IP Networks
James Aweya
January 2003 **International Journal of Network Management**, Volume 13 Issue 1

Full text available: pdf(418.58 KB) Additional Information: full citation, abstract, references, citings, index terms

The recent interest in IP as the vehicle for transporting TDM and narrowband services stems from the possibility of using a common transport network for voice, video, and data, and the flexibility with which new services can be introduced. A key step in the evolution of

networks towards a 'broadband' IP-based environment is the 'graceful' interworking of the IP networks with the existing networks and services, particularly with the circuit switched telephone network. A &l ...

11 A service framework for carrier grade multimedia services using PARPLAY APIs over a SIP system

Rudolf Pailer, Johannes Stadler

July 2001 **Proceedings of the first workshop on Wireless mobile internet**

Full text available: pdf(713.19 KB) Additional Information: full citation, abstract, references, index terms

The implementation of new mobile communication technologies developed in the third generation partnership project (3GPP) will allow to access the Internet not only from a PC but also via mobile phones, palmtops and other devices. New applications will emerge, combining several basic services like voice telephony, e-mail, voice over IP, mobility or web-browsing, and thus wiping out the borders between the fixed telephone network, mobile radio and the Internet. Offering those value-added s ...

Keywords: SIR-PARLAY mapping, caller preferences, carrier grade services, network-independent services, service platform

12 Dynamic network reconfiguration support for mobile computers

Jon Inouye, Jim Binkley, Jonathan Walpole

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available: pdf(1.60 MB) Additional Information: full citation, references, citings, index terms

13 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available: pdf(631.57 KB) Additional Information: full citation, abstract, references, citings, index terms

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

14 D-SPTF: decentralized request distribution in brick-based storage systems

Christopher R. Lumb, Richard Golding

October 2004 **Proceedings of the 11th international conference on Architectural support for programming languages and operating systems**, Volume 39 , 32 , 38 Issue 11 , 5 , 5

Full text available: pdf(328.72 KB) Additional Information: full citation, abstract, references, index terms

Distributed Shortest-Positioning Time First (D-SPTF) is a request distribution protocol for decentralized systems of storage servers. D-SPTF exploits high-speed interconnects to dynamically select which server, among those with a replica, should service each read request. In doing so, it simultaneously balances load, exploits the aggregate cache capacity, and reduces positioning times for cache misses. For network latencies expected in storage clusters (e.g., 10--200µs), D-SPTF performs as ...

Keywords: brick based storage, decentralized systems, disk scheduling, distributed

systems, storage systems

15 Ad hoc multicast routing algorithm with swarm intelligence
Chien-Chung Shen, Chaiporn Jaikaeo
February 2005 **Mobile Networks and Applications**, Volume 10 Issue 1-2
Full text available: pdf(424.44 KB) Additional Information: full citation, abstract, references, index terms

Swarm intelligence refers to complex behaviors that arise from very simple individual behaviors and interactions, which is often observed in nature, especially among social insects such as ants. Although each individual (an ant) has little intelligence and simply follows basic rules using local information obtained from the environment, such as ant's pheromone trail laying and following behavior, globally optimized behaviors, such as finding a shortest path, emerge when they work collectively as ...

Keywords: ad hoc networks, multicast routing, swarm intelligence

16 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

17 An efficient communication architecture for commodity supercomputers
Stephan Brauss, Martin Frey, Martin Heimlicher, Andreas Huber, Martin Lienhard, Patrick Müller, Martin Näf, Josef Nemecek, Roland Paul, Anton Gunzinger
January 1999 **Proceedings of the 1999 ACM/IEEE conference on Supercomputing (CDROM)**
Full text available: pdf(678.14 KB) Additional Information: full citation, references, index terms

18 Full Technical Papers: Presenting route instructions on mobile devices
Christian Kray, Christian Elting, Katri Laakso, Volker Coors
January 2003 **Proceedings of the 8th international conference on Intelligent user interfaces**
Full text available: pdf(434.46 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper, we evaluate several means of presenting route instructions to a mobile user. Starting from an abstract language-independent description of a route segment, we show how to generate various presentations for a mobile device ranging from spoken instructions to 3D visualizations. We then examine the relationship between the quality of positional information, available resources and the different types of presentations. The paper concludes with guidelines that help to determine which p ...

Keywords: mobile devices, multimodal presentations, positional information, route instructions

19 Performance of routing schemes in wireless personal networks

Anna Della Torre Hać, Zhu Della Torre Zhu

March 1999 **International Journal of Network Management**, Volume 9 Issue 2

Full text available: pdf(329.82 KB) Additional Information: full citation, abstract, references, citings, index terms

Routing efficiency in wireless communication networks depends critically on the propagation of location information into the network. We propose new dynamic traffic and state-dependent routing algorithms which are suitable for the demands of future wireless personal communications networks. Copyright © 1999 John Wiley & Sons, Ltd.

20 Terminating telephony services on the internet

Vijay K. Gurbani, Xian-He Sun

August 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 4

Full text available: pdf(544.74 KB) Additional Information: full citation, abstract, references, index terms

We propose a general purpose service architecture for realizing services which start in the Public Switched Telephone Network (PSTN) but terminate and execute on the Internet. We discuss the needs for such services, our early research efforts in this direction which lead to prototyping certain benchmark services, and the current state of work in this area. We demonstrate the feasibility of the architecture by focusing on services which involve wireline PSTN as well as the wireless aspects (2 G, ...

Keywords: HTTP, SIP, internet, public switched telephone network(PSTN), services, wireless, wireline

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